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wherein the footswitch enables operation of the first potentiometer

[C10] (currently amended) ~~An~~ The ultrasonic dental scaler of claim 9, further comprising:

a dental generator unit comprising:

circuitry for producing a base resonance signal; and

a first potentiometer for adjusting a power level to the circuitry;

a footswitch connectable to the dental generator unit, wherein the footswitch, when engaged with the dental generator unit, selectively sends power to the dental generator unit, wherein the footswitch enables operation of the first potentiometer; and

a second potentiometer within the footswitch;

wherein the first potentiometer is disabled when the footswitch is connected to the dental generator unit.

[C11] (currently amended) ~~The~~ ultrasonic dental scaler of claim ~~9~~ 10, wherein the footswitch comprises a pair of wires such that when the footswitch is engaged with the dental generator unit, the first potentiometer adjusts the power level to the circuitry.

[C12] (previously presented) An ultrasonic dental scaler comprising:

a footswitch comprising circuitry for sending power to the ultrasonic dental scaler; and

a footswitch connector coupled between the footswitch and the ultrasonic dental scaler, wherein the footswitch connector connects circuitry in the ultrasonic dental scaler to a first potentiometer.

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[C13] (original) The footswitch of claim 12, wherein the first potentiometer is within the ultrasonic dental scaler.

[C14] (original) The footswitch of claim 12, wherein the first potentiometer is within the footswitch.

[C15] (previously presented) An ultrasonic dental scaler comprising:

a footswitch comprising:

circuitry for sending power to the ultrasonic dental scaler;  
and

a first potentiometer;

a footswitch connector coupled between the footswitch and the ultrasonic dental scaler, wherein the footswitch connector connects circuitry in the ultrasonic dental scaler to a first potentiometer in the footswitch; and

a second potentiometer;

wherein the second potentiometer is disabled when the footswitch is connected to the ultrasonic dental unit.

[C16] (canceled)

[C17] (canceled)

[C18] (canceled)

[C19] (canceled)

[C20] (new) An ultrasonic dental scaler comprising:

a dental generator unit comprising circuitry for producing a base resonance signal;

a handpiece connector for removably coupling a handpiece to the dental generator unit; and

a capacitor coupled to the circuitry via the handpiece connector to adjust a frequency of the base resonance signal to a

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second frequency matching a resonant frequency of the handpiece.

[C21] (new) An ultrasonic dental scaler comprising:

- a dental generator unit comprising circuitry for producing a base resonance signal;
- a handpiece connector for removably coupling a handpiece to the dental generator unit; and
- a programmable logic control device coupled to the circuitry via the handpiece connector to adjust a frequency of the base resonance signal to a second frequency matching a resonant frequency of the handpiece.

[C22] (new) An ultrasonic dental scaler comprising:

- a dental generator unit comprising circuitry for producing a base resonance signal;
- a handpiece connector for removably coupling a handpiece to the dental generator unit; and
- a passive circuit element in addition to an inductor in the handpiece coupled to the circuitry via the handpiece connector to adjust a frequency of the base resonance signal to a second frequency matching a resonant frequency of the handpiece.